Dell™ U3011 Flat Panel Monitor User's Guide

Notes, Cautions, and Warnings

NOTE: A NOTE indicates important information that helps you make better use of your computer.

CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

WARNING: **A WARNING indicates a potential for property damage, personal injury, or death.**

Model U3011t

July 2010 Rev. A00

About Your Monitor

Dell™ U3011 Flat Panel Monitor User's Guide

 ● Package Contents
 ● Product Features
 ● Identifying Parts and Controls
 ● Monitor Specifications
 ● Universal Serial Bus (USB) Interface
 ● Plug and Play Capability
 ● Card Reader Specifications
 ● LCD Monitor Quality and Pixel Policy
 ● Maintenance Guidelines

Package Contents

Your monitor ships with the components shown below. Ensure that you have received all the components and contact Dell if something is missing.

NOTE: Some items may be optional and may not ship with your monitor. Some features or media may not be available in certain countries.

	l Monitor with stand
	l Power Cable
	l VGA Cable
	l Dual-link DVI Cable (attached to the monitor)
	l DisplayPort Cable
	l USB up stream cable (enables the USB ports and card reader on the monitor)
	l *Drivers and Documentation* media l *Quick Setup Guide*
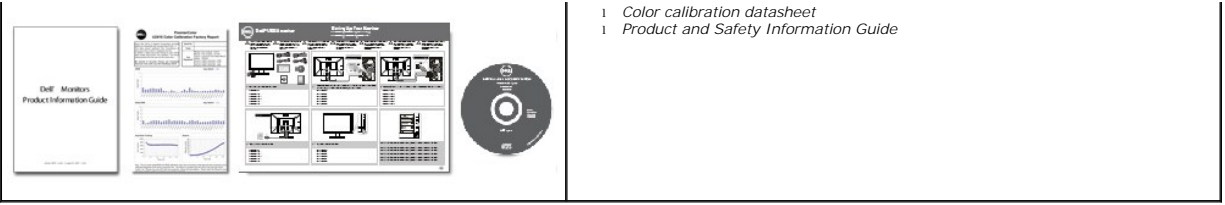
Product Features

The **U3011** flat panel display has an active matrix, thin-film transistor (TFT), liquid crystal display (LCD). The monitor features include:

■ 756.23 mm (30 inches) viewable area display (measured diagonally).

■ 2560 x 1600 resolution, plus full-screen support for lower resolutions.

■ Wide viewing angle (178°/178°) and superb grayscale tracking minimizes color deviations at biased angles of viewing (sitting, standing, or moving side- to-side) which ensures ultra-smooth color gradation.

■ Tilt, swivel and vertical extension adjustment capabilities.

■ Removable stand and Video Electronics Standards Association (VESA**™**) 100 mm mounting holes for flexible mounting solutions.

■ Plug and play capability if supported by your system.

■ On-Screen Display (OSD) adjustments for ease of set-up and screen optimization.

■ Software and documentation media includes an information file (INF), Image color Matching File (ICM), and product documentation.

■ Security lock slot.

■ Compatible with xvYCC, Adobe RGB and sRGB color standards.

■ Factory calibrated to an average delta E of < 5 under sRGB and Adobe RGB input source for brand-new Dell monitor U3011. Dedicated Custom Color Mode (6-axis Color-control) for Saturation, Hue, Gain (RGB) and offset (RGB).

■ 12-bit internal processing which tested HDMI1.3 with deep color (12-bit).

■ 7-in-1 USB 2.0 Card Reader (xD, SD/Mini SD, MS/HSMD/MSPRO, MMC).

■ Supports VGA, DVI-D, DisplayPort, HDMI and Component video signals.

■ Supports Picture by Picture (PBP) Select mode.

Identifying Parts and Controls

Front View

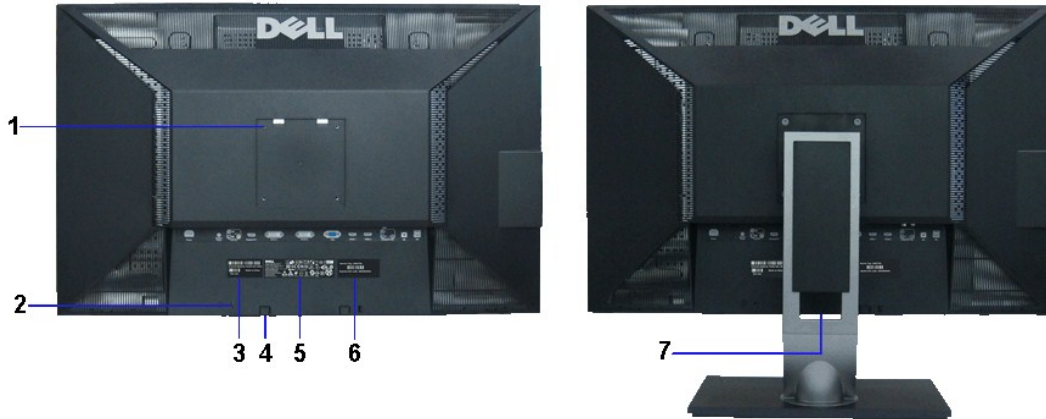

Front View   **Front panel controls**

Label	Description
1	Shortcut Key 1 - Preset Modes (Default)
2	Shortcut Key 2 - Brightness/Contrast (Default)

3	Shortcut Key 3 - Input Source (Default)
4	Menu
5	Exit
6	Power (with power light indicator)

✍ **NOTE:** 1~5 are capacitive touch sensor keys, which are activated by placing your finger on the blue LED.

Back View

Back view   **Back view with monitor stand**

Label	Description	Use
1	VESA mounting holes (100 mm x 100 mm - behind attached VESA Plate)	Wall mount monitor using VESA-compatible wall mount kit (100 mm x 100 mm).
2	Security lock slot	To help secure your monitor.
3	Barcode serial number label	To contact Dell for technical support.
4	Dell Soundbar mounting brackets (2)	To attach the optional Dell Soundbar.
5	Regulatory label	Lists the regulatory approvals.
6	Service tag label	Refer to this label if you need to contact Dell for technical support.
7	Cable management hole	Helps organize cables by placing them through the hole.

Side View
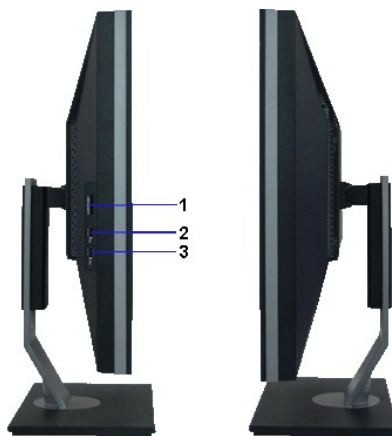
Left view   **Right view**

Label	Description
1	Card reader: for details, see Card Reader Specifications.
2	USB downstream port.
3	USB downstream port (support up-to 1.5 A charging current).

✍ **NOTE:** To use the USB connectors on your monitor, connect the USB cable to your computer and the USB upstream connector to your monitor.

Bottom View
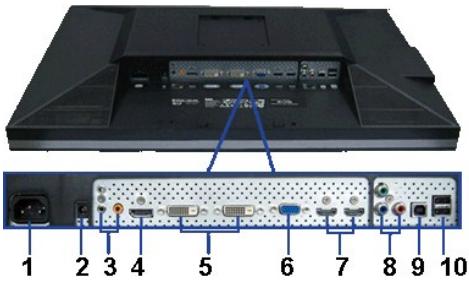
Bottom view

Bottom view with monitor stand

Label	Description	Use
1	AC power cord connector	Connect the power cable.
2	DC power connector for Dell Soundbar	Connect the power cord for the soundbar (optional).
3	Audio connectors	Connect the HDMI 2.0 channel or DisplayPort 2.0 channel or 5.1 channel audio output devices. **Connect the front left/right channel output to the green connector. Use this connector for 2.0/2.1 channel audio connection.** Connect the rear left/right channel output to the black connector. Use this connector for 5.1 channel audio connection. **Connect the center/subwoofer channel output to the orange connector. Use this connector for 5.1 channel audio connection.**
4	DisplayPort connector	Connect your computer DisplayPort cable.
5	DVI connector	Connect your computer DVI (Dual link) cable.
6	VGA connector	Connect your computer VGA cable.
7	HDMI connector	Connect devices such as a DVD player or set-top box.
8	Component video connectors	Connect devices such as a DVD player, set-top box, or cable TV box.
9	USB upstream port	Connect the USB cable that came with your monitor to the monitor and the computer. Once this cable is connected, you can use the USB connectors on the side and bottom of the monitor.
10	USB downstream ports	Connect your USB devices. You can only use this connector after you have connected the USB cable to the computer and USB upstream connector on the monitor.

Monitor Specifications

Flat Panel Specifications

Model	U3011
Screen type	Active matrix - TFT LCD
Panel type	IPS
Screen dimensions	756.23 mm (30 inches)
Preset display area:	641.28 mm x 400.80 mm
Horizontal	641.28 mm (25.25 inches)
Vertical	400.80 mm (15.78 inches)
Pixel pitch	0.2505 mm
Pixel per Inch	101
Viewing angle	178° (vertical) typical, 178° (horizontal) typical
Luminance output	370 cd/m² (typical)
Contrast ratio	1000 to 1 (typical), 100,000 to 1 (max, Dynamic Contrast on)
Faceplate coating	Antiglare with hard-coating 3H
Backlight	Direct Light Type_18 CCFL
Response Time	GTG AVR 7 ms / GTG_MAX 17 ms

Color depth	1.07 billion colors
Color Gamut	117%* NTSC typical / 100% sRGB, 99% Adobe RGB

*U3011 color gamut (typical) is based on CIE1976 (117%) and CIE1931 (102%) test standards.

Resolution Specifications

Analog signal input

Horizontal scan range	30 kHz to 99 kHz
Vertical scan range	**56 Hz to 86 Hz**
Optimal preset resolution	2048 x 1280 at 60 Hz
Highest preset resolution	2048 x 1280 at 60 Hz

Digital signal Input (DVI dual link and DisplayPort and HDMI)

Horizontal scan range	30 kHz to 112.5 kHz
Vertical scan range	**56 Hz to 86 Hz**
Optimal preset resolution	2560 x 1600 at 60 Hz (DVI/DisplayPort input sources) 1920 x 1200 at 60 Hz (HDMI input source)
Highest preset resolution	2560 x 1600 at 60 Hz (DVI/DisplayPort input sources) 1920 x 1200 at 60 Hz (HDMI input source)

Supported Video Modes

Video display capabilities (HDMI playback)	480i/480p/576i/576p/720p/1080i/1080p
Video display capabilities (Component playback)	480i/480p/576i/576p/720p/1080i/1080P

Preset Display Modes

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal/Vertical)
VESA, 720 x 400	31.47	70.0	28.322	-/+
VESA, 640 x 480	31.47	60.0	25.175	-/-
VESA, 640 x 480	37.5	75.0	31.5	-/-
VESA, 800 x 600	37.88	60.0	40	+/+
VESA, 800 x 600	46.88	75.0	49.5	+/+
VESA, 1024 x 768	48.36	60.0	65.0	-/-
VESA, 1024 x 768	60.02	75.0	78.75	+/+
VESA, 1152 x 864	67.5	75.0	108	+/+
VESA, 1280 x 800	49.7	60.0	83.5	-/+
VESA, 1280 x 1024	64.0	60.0	108	+/+
VESA, 1280 x 1024	80.0	75.0	135	+/+
VESA, 1600 x 1200	75.0	60.0	162	+/+
VESA, 1920 x 1200	74.6	60.0	193.5	-/+
VESA, 2048 x 1280	78.82	60.0	174.25	+/-
VESA, 2560 x 1600	98.71	60.0	268.5	+/-

Electrical Specifications

Video input signals	Analog RGB, 0.7 Volts +/-5%, positive polarity at 75 ohm input impedance Digital DVI-D TMDS, 600mV for each differential line, positive polarity at 50 ohm input impedance HDMI TMDS, 600 mV for each differential line, positive polarity at 50 ohm input impedance or 100 Ohm per differential pair DisplayPort 1.1a signal input support Component, Y 0.7 volt, Pb, Pr are all 0.7 volt(p-p),

	sync(H+V) 0.3 volt, 75 ohm input impedance
Synchronization input signals	Separate horizontal and vertical synchronizations, polarity-free TTL level, SOG (Composite SYNC on green)
AC input voltage/frequency/current	100 to 240 VAC / 50 Hz/60 Hz +/- 3 Hz / 2.5 A (Max.)
Inrush current	120 V: 42 A (Max.) at 0 ^{o}C 220 V: 80 A (Max.) at 0 ^{o}C

Physical Characteristics

Connector type	15-pin D-subminiature, blue connector; DVI-D, white connector; HDMI/DisplayPort, black connector; Component
Signal cable type	DVI: Detachable, DVI-D, Solid pins, shipped attached to the monitor DisplayPort: Detachable, DisplayPort, Solid pins, shipped detached from the monitor Analog: Detachable, D-Sub, 15 pins, shipped detached from the monitor High Definition Multimedia Interface: Detachable, HDMI, 19 pins Component NOTE: The component, and HDMI cables are not included with the monitor.
Dimensions (with stand)	
Height (Compressed)	481.3 mm (18.95 inches)
Height (Extended)	571.3 mm (22.50 inches)
Width	694.5 mm (27.34 inches)
Depth	211.3 mm (8.32 inches)
Dimensions (without stand)	
Height	453.3 mm (17.85 inches)
Width	694.5 mm (27.34 inches)
Depth	94.4 mm (3.72 inches)
Stand dimensions	
Height (Compressed)	323.2 mm (12.72 inches)
Height (Extended)	413.2 mm (16.27 inches)
Width	349.4 mm (13.76 inches)
Depth	211.3 mm (8.32 inches)
Weight	
Weight with packaging	15.3 kg (33.76 lb)
Weight with stand assembly and cables	12.6 kg (27.72 lb)
Weight without stand assembly (For wall mount or VESA mount considerations - no cables)	9.3 kg (20.40 lb)
Weight of stand assembly	2.6 kg (5.69 lb)

Environmental Characteristics

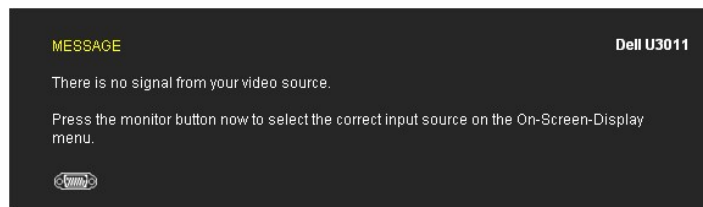|	
Temperature	
Operating	5° to 35°C (41° to 95°F)
Non-operating	Storage: -20° to 60°C (-4° to 140°F) Shipping: -20° to 60°C(-4° to 140°F)
Humidity	
Operating	10% to 80% (non-condensing)
Non-operating	Storage: 5% to 90% (non-condensing) Shipping: 5% to 90%(non-condensing)
Altitude	

Operating	3,657.6 m (12,000 ft) max
Non-operating	12,192 m (40,000 ft) max
Thermal dissipation	853.6 BTU/hour (maximum) 375.59 BTU/hour (typical)

Power Management Modes

If you have VESA's DPM™ compliance display card or software installed in your PC, the monitor can automatically reduce its power consumption when not in use. This is referred to as *Power Save Mode**. If the computer detects input from keyboard, mouse, or other input devices, the monitor automatically resumes functioning. The following table shows the power consumption and signaling of this automatic power saving feature:

VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption
Normal operation (with Dell Soundbar and USB active)	Active	Active	Active	Blue	250 W (maximum)**
Normal operation	Active	Active	Active	Blue	110 W (typical)
Active-off mode	Inactive	Inactive	Blanked	Amber	Less than 2 W
Switch off	-	-	-	Off	Less than 1 W

The OSD will only function in the normal operation mode. When any button is pressed in Active-off mode, one of the following messages will be displayed:

MESSAGE   **Dell U3011**

There is no signal from your video source.

Press the monitor button now to select the correct input source on the On-Screen-Display menu.

NOTE: While using the DisplayPort connector at 230V/50Hz, the DisplayPort consumes approximately 0.25 W more than the VGA or DVI-D while in sleep mo

NOTE: This monitor is **ENERGY STAR**®-compliant.

*   Zero power consumption in OFF mode can only be achieved by disconnecting the main cable from the monitor.
** Maximum power consumption with max luminance, Dell Soundbar, and USB active.
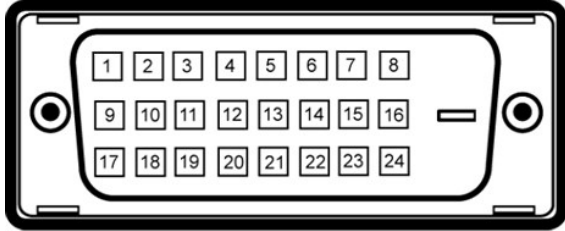
Pin Assignments

VGA Connector
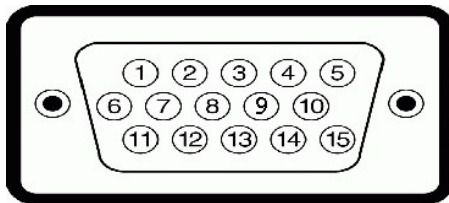
Pin Number	15-pin Side of the Connected Signal Cable
1	Video-**Red**
2	Video-Green
3	Video-Blue
4	GND
5	Self-test
6	GND-R
7	GND-G
8	GND-B
9	+5V
10	DDC-GND
11	GND

12	DDC-SDA
13	H-sync
14	V-sync
15	DDC-SCL

DVI Connector

NOTE: Pin 1 is at the top left.

Pin Number	24-pin Side of the Connected Signal Cable
1	T.M.D.S. Data 2-
2	T.M.D.S. Data 2+
3	T.M.D.S. Data 2/4 Shield
4	T.M.D.S. Data 4-
5	NT.M.D.S. Data 4+
6	DDC Clock
7	DDC Data
8	No Connect
9	T.M.D.S. Data 1-
10	T.M.D.S. Data 1+
11	T.M.D.S. Data 1/3 Shield
12	T.M.D.S. Data 3-
13	T.M.D.S. Data 3+
14	+5V Power
15	Self Test
16	Hot Plug Detect
17	T.M.D.S. Data 0-
18	T.M.D.S. Data 0+
19	T.M.D.S. Data 0/5 Shield
20	T.M.D.S. Data 5-
21	T.M.D.S. Data 5+
22	T.M.D.S. Clock Shield
23	T.M.D.S. Clock +
24	T.M.D.S. Clock -

20-pin DisplayPort Connector
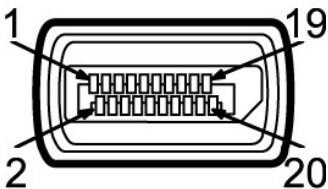
Pin Number	20-pin Side of the Connected Signal Cable
1	ML0(p)
2	GND
3	ML0(n)
4	ML1(p)

5	GND
6	ML1(n)
7	ML2(p)
8	GND
9	ML2(n)
10	ML3(p)
11	GND
12	ML3(n)
13	GND
14	GND
15	AUX(p)
16	GND
17	AUX(n)
18	HPD
19	DP_PWR Return
20	+3.3V DP_PWR

19-pin HDMI Connector
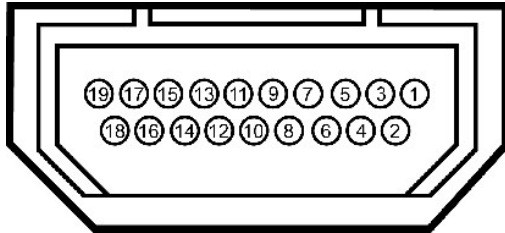
Pin Number	19-pin Side of the Connected Signal Cable (Cable not included)
1	TMDS DATA 2+
2	TMDS DATA 2 SHIELD
3	TMDS DATA 2-
4	TMDS DATA 1+
5	TMDS DATA 1 SHIELD
6	TMDS DATA 1-
7	TMDS DATA 0+
8	TMDS DATA 0 SHIELD
9	TMDS DATA 0-
10	TMDS CLOCK
11	TMDS CLOCK SHIELD
12	TMDS CLOCK-
13	Floating
14	Floating
15	DDC CLOCK (SDA)
16	DDC DATA (SDA)
17	GROUND
18	+5V POWER
19	HOT PLUG DETECT

Component Video Connector

Pin Number	3-pin Side of the Connected Signal Cable (Cable not included)
1	Y (Luminance signal)
2	Pb (Color differential signal)
3	Pr (Color differential signal)

Universal Serial Bus (USB) Interface

NOTE: This monitor supports High-Speed Certified USB 2.0 interface.

Transfer speed	Data Rate	Power Consumption
High speed	480 Mbps	2.5 W (Max., each port)
Full speed	12 Mbps	2.5 W (Max., each port)
Low speed	1.5 Mbps	2.5 W (Max., each port)

USB Upstream Connector
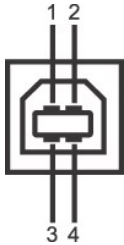
Pin Number	4-pin Side of the Connector
1	DMU
2	VCC
3	DPU
4	GND

USB Downstream Connector
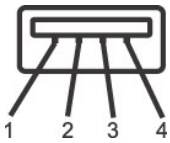
Pin Number	4-Pin Side of the Signal Cable
1	VCC
2	DMD
3	DPD
4	GND

USB Ports

- ꞁ 1 upstream - back
- ꞁ 4 downstream - 2 on back; 2 on left side

NOTE: USB 2.0 functionality requires a USB 2.0-capable computer

NOTE: The monitor's USB interface works only when the monitor is on or in power save mode. If you turn off the monitor and then turn it on, the attached pe take a few seconds to resume normal functionality.

Plug and Play Capability

You can install the monitor in any Plug and Play-compatible system. The monitor automatically provides the computer system with its Extended Display

Identification Data (EDID) using Display Data Channel (DDC) protocols so the system can configure itself and optimize the monitor settings. Most monitor installations are automatic; you can select different settings if desired. For more information about changing the monitor settings, see Operating the Monitor.

Card Reader Specifications

Overview

- The Flash Memory Card Reader is a USB storage device that allows users to read and write information from and into the memory card.
- The Flash Memory Card Reader is automatically recognized by Microsoft® Windows® 2000, Windows® XP, Windows Vista® and Windows® 7.
- Once installed and recognized, the memory card (slot) appears as a separate drive/drive letter.
- All standard file operations (copy, delete, drag-and-drop, etc.) can be performed with this drive.

Features

The Flash Memory Card Reader has the following features:

- Supports Microsoft® Windows® 2000, Windows® XP, Windows Vista® and Windows® 7 operating systems.
- No Microsoft® Windows® 9X support from Dell.
- Mass Storage Class device (No drivers are required under Microsoft® Windows® 2000, Windows® XP, Windows Vista® and Windows® 7).
- USB-IF certification.
- Supports various memory card media.
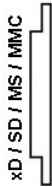
The following table lists the slot to support what kind of memory card:

Flash memory cards type
xD memory card
Memory Stick Card (MS)/High Speed Memory Stick (HSMS)/Memory Stick Pro Card (MS PRO)/Memory Stick Duo (with Adapter)
Secure Digital Card (SD)/Mini Secure Digital (with Adapter)/ TransFlash Card (with Adapter)
MultiMedia Card (MMC)/Reduced Size MultiMedia Card (with Adapter)

Cards Type	Support Specification	Memory Card Spec Version	Max. capacity
xD	xD Picture Card Specification	1.2	2 GB
MS	Memory Stick Standard Format Specification	1.43	128 MB
MS PRO	Memory Stick Pro Standard Format	1.02	32 GB
MS Duo	Specifications	1.10	128 MB/32 GB
MS Duo - HG	Memory Stick Duo Standard Format	1.01	32 GB
SD	Specifications	2.0	32 GB
MMC	Memory Stick Duo Standard Format Specifications SD Memory Card Specifications MultiMedia Card System Specification	4.2	32 GB

NOTE: MSPRO : MSPRO includes MSPRO Duo and MS Micro.

NOTE: SD : SD includes HS-SD, MiniSD, and SD Micro. SD v2.0 spec includes SDHC.

NOTE: MMC : MMC includes MMCPlus, RS-MMC, MMC Mobile, and MMC micro.

NOTE: xD: xD includes TypeM and TypeH.

LCD Monitor Quality and Pixel Policy

During the LCD Monitor manufacturing process, it is not uncommon for one or more pixels to become fixed in an unchanging state which are hard to see and do not affect the display quality or usability. For more information on Dell Monitor Quality and Pixel Policy, see Dell Support site at: **support.dell.com**.

Maintenance Guidelines

Cleaning Your Monitor

⚠ **WARNING: Read and follow the** safety instructions **before cleaning the monitor.**

⚠ **WARNING: Before cleaning the monitor, unplug the monitor power cable from the electrical outlet.**

For best practices, follow the instructions in the list below while unpacking, cleaning, or handling your monitor:

l To clean your antistatic screen, lightly dampen a soft, clean cloth with water. If possible, use a special screen-cleaning tissue or solution suitable for the antistatic coating. Do not use benzene, thinner, ammonia, abrasive cleaners, or compressed air.
l Use a lightly-dampened, warm cloth to clean the monitor. Avoid using detergent of any kind as some detergents leave a milky film on the monitor.
l If you notice white powder when you unpack your monitor, wipe it off with a cloth.
l Handle your monitor with care as a darker-colored monitor may scratch and show white scuff marks more than a lighter-colored monitor.
l To help maintain the best image quality on your monitor, use a dynamically changing screen saver and turn off your monitor when not in use.

Appendix

Dell™ U3011 Flat Panel Monitor User's Guide

- Safety Instructions
- FCC Notice (U.S. Only) and Other Regulatory Information
- Contacting Dell

⚠️WARNING: Safety Instructions

> ⚠️ **WARNING:** Use of controls, adjustments, or procedures other than those specified in this documentation may result in exposure to shock, electrical hazards, and/or mechanical hazards.

For information on safety instructions, see the *Product Information Guide*.

FCC Notices (U.S. Only) and Other Regulatory Information

For FCC notices and other regulatory information, see the regulatory compliance website located at www.dell.com\regulatory_compliance.

Contacting Dell

For customers in the United States, call 800-WWW-DELL (800-999-3355).

> **NOTE:** If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell for sales, technical support, or customer service issues:

1. Visit **support.dell.com**.
2. Verify your country or region in the **Choose A Country/Region** drop-down menu at the bottom of the page.
3. Click **Contact Us** on the left side of the page.
4. Select the appropriate service or support link based on your need.
5. Choose the method of contacting Dell that is convenient for you.

Setting Up Your Monitor

Dell™ U3011 Flat Panel Monitor

If you have a Dell™ desktop or a Dell™ portable computer with internet access

1. Go to **http://support.dell.com**, enter your service tag, and download the latest driver for your graphics card.

2. After installing the drivers for your Graphics Adapter, attempt to set the resolution to 2048 x 1280 (VGA input source) / 2560 x 1600 (DVI/DisplayPort input sources) / 1920 x 1200 (HDMI input source) again.

NOTE: If you are unable to set the resolution to 2048 x 1280 (VGA input source) / 2560 x 1600 (DVI/DisplayPort input sources) / 1920 x 1200 (HDMI input source), please contact Dell™ to inquire about a Graphics Adapter that supports these resolutions.

NOTE: In DVI, please use the dual-link DVI cable shipped with your monitor for maximum preset resolution of 2560 x 1600.

Setting Up Your Monitor
Dell™ U3011 Flat Panel Monitor

If you have a non Dell™ desktop, portable computer, or graphics card

In Windows XP:

1. Right-click on the desktop and click **Properties**.

2. Select the **Settings** tab.

3. Select **Advanced**.

4. Identify your graphics controller supplier from the description at the top of the window (e.g. NVIDIA, ATI, Intel etc.).

5. Refer to the graphic card provider website for updated driver (for example, http://www.ATI.com OR http://www.NVIDIA.com).

6. After installing the drivers for your Graphics Adapter, attempt to set the resolution to 2048 x 1280 (VGA input source) / 2560 x 1600 (DVI/DisplayPort input sources) / 1920 x 1200 (HDMI input source) again.

In Windows Vista® or Windows® 7:

1. Right-click on the desktop and click **Personalization.**

2. Click **Change Display Settings.**

3. Click **Advanced Settings.**

4. Identify your graphics controller supplier from the description at the top of the window (e.g. NVIDIA, ATI, Intel etc.).

5. Refer to the graphic card provider website for updated driver (for example, http://www.ATI.com OR http://www.NVIDIA.com).

6. After installing the drivers for your Graphics Adapter, attempt to set the resolution to 2048 x 1280 (VGA input source) / 2560 x 1600 (DVI/DisplayPort input sources) / 1920 x 1200 (HDMI input source) again.

NOTE: If you are unable to set the resolution to 2048 x 1280 (VGA input source) / 2560 x 1600 (DVI/DisplayPort input sources) / 1920 x 1200 (HDMI input source), please contact the manufacturer of your computer or consider purchasing a graphics adapter that will support the video resolution of 2048 x 1280 (VGA input source) / 2560 x 1600 (DVI/DisplayPort input sources) / 1920 x 1200 (HDMI input source)**.**

NOTE: In DVI, please use the dual-link DVI cable shipped with your monitor for maximum preset resolution of 2560 x 1600.

Operating the Monitor

Dell™ U3011 Flat Panel Monitor User's Guide

- Using the Front Panel Controls
- Using the On-Screen Display (OSD) Menu
- Setting the Maximum Resolution
- Using the Dell Soundbar (Optional)
- Using the Tilt, Swivel, and Vertical Extension

Using the Front Panel Controls

Use the control buttons on the front of the monitor to adjust the characteristics of the image being displayed. As you use these buttons to adjust the controls, an OSD shows the numeric values of the characteristics as they change.

NOTE: 1~5 are capacitive touch sensor keys, which are activated by placing your finger on the blue LED.
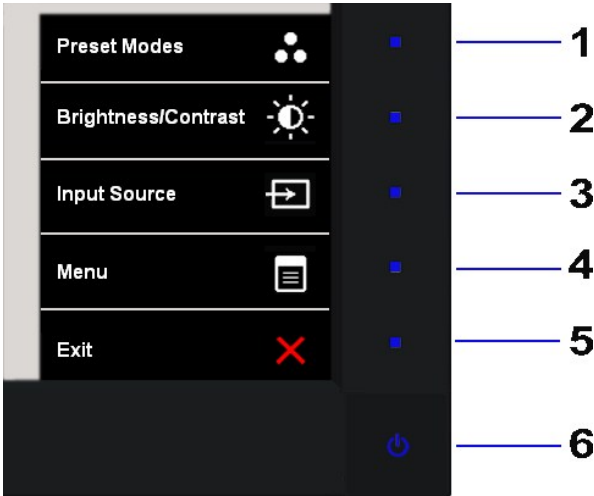
The following table describes the front panel buttons:

	Front panel Button	Description
1	**Shortcut key 1 - Preset Modes (Default)**	Use this button to choose from a list of preset color modes.
2	**Shortcut key 2 - Brightness/Contrast (Default)**	Use this button to directly access the "Brightness/Contrast" menu.
3	**Shortcut key 3 - Input Source (Default)**	Use Input Source Select button to select between different video signals that may be connected to your monitor. l DVI-D 1 l DVI-D 2 l DisplayPort l VGA l HDMI 1 l HDMI 2 l Component
4	**Menu**	Use the MENU button to launch the on-screen display (OSD) and select the OSD Menu. See Accessing the Menu System.

5	 **Exit**	Exit the On-Screen Display menu.
6	 **Power** **(with power light indicator)**	Use the Power button to turn the monitor on and off. The blue LED indicates the monitor is on and fully functional. An amber LED indicates DPMS power save mode.

Using the On-Screen Display (OSD) Menu

Accessing the Menu System

NOTE: If you change the settings and then either proceed to another menu or exit the OSD menu, the monitor automatically saves those changes. The changes are also saved if you change the settings and then wait for the OSD menu to disappear.

1. Touch the ☰ button to launch the OSD menu and display the main menu.
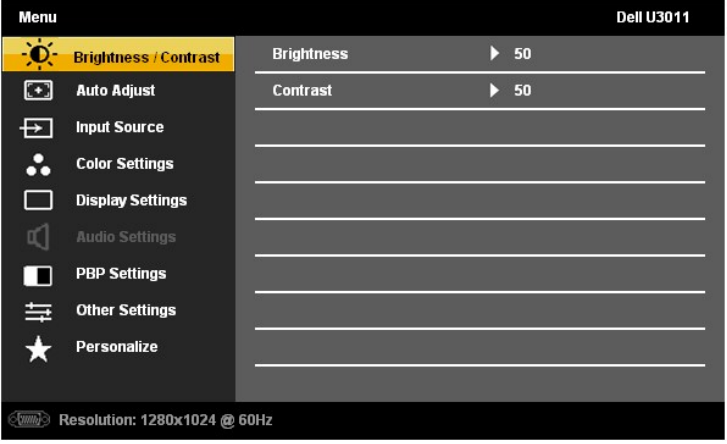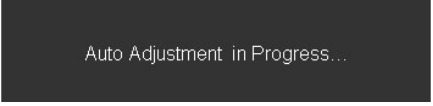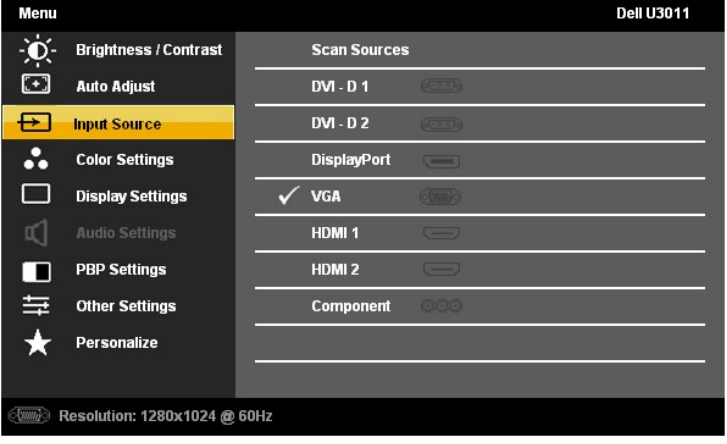
Main Menu for analog (VGA) Input

| Menu		Dell U3011
☀ **Brightness / Contrast**	Brightness ▶ 50	
⊡ Auto Adjust	Contrast ▶ 50	
⇥ Input Source		
⁙ Color Settings		
▭ Display Settings		
◁ Audio Settings		
◨ PBP Settings		
⇄ Other Settings		
★ Personalize		
Resolution: 1280x1024 @ 60Hz		∧ ∨ → ✕
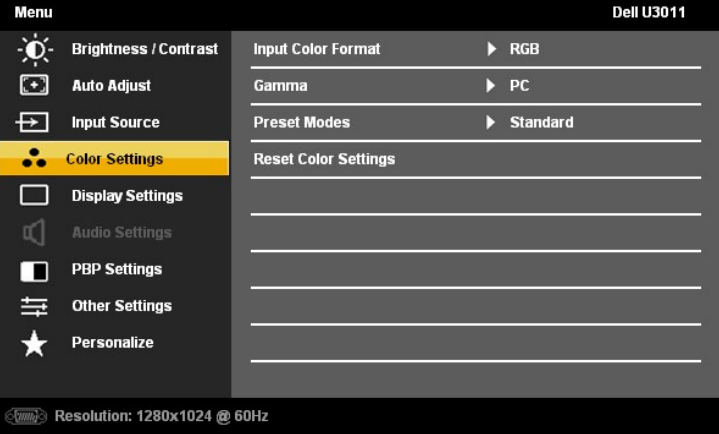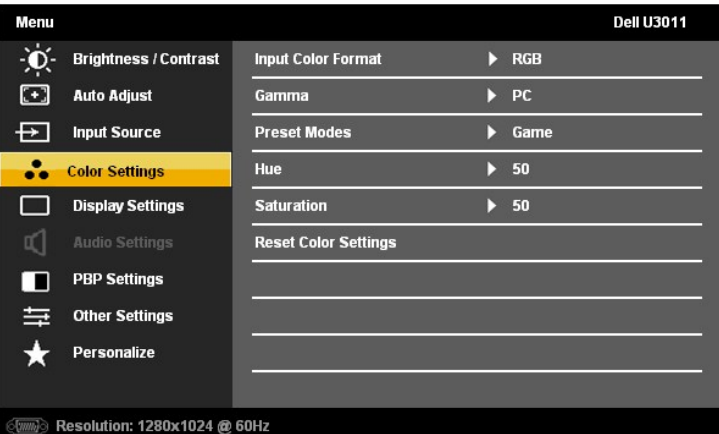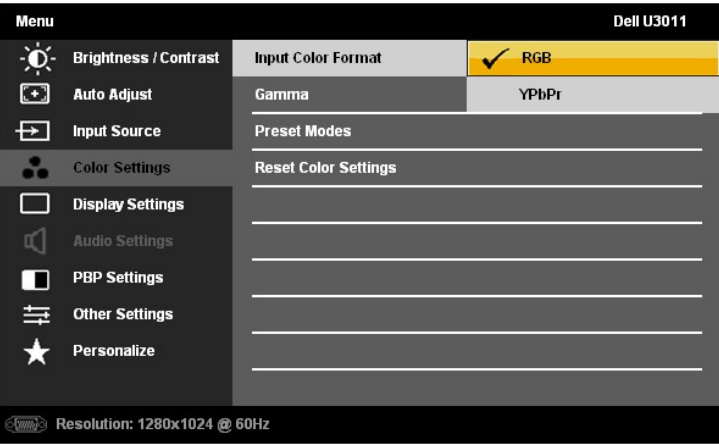
NOTE: Auto Adjust is only available when you use the analog (VGA) connector.

2. Touch the ∧ or ∨ button to move between the setting options. As you move from one icon to another, the option name is highlighted. See the following table for a complete list of all the options available for the monitor.

3. Touch the → button once to activate the highlighted option.

4. Touch the ∧ or ∨ button to select the desired parameter.

5. Touch the → button to enter the slide bar and then use the ∧ and ∨ buttons, according to the indicators on the menu, to make your changes.

6. Touch the ↰ button to return to the main menu or ✕ to exit the OSD menu.

Icon	Menu and Submenus	Description

	Brightness/Contrast	Use this menu to activate Brightness/Contrast adjustment.

		Menu **Dell U3011**
		
		    Brightness / Contrast **Brightness** ▶ 50
		    Auto Adjust **Contrast** ▶ 50
		    Input Source
		    Color Settings
		    Display Settings
		    Audio Settings
		    PBP Settings
		    Other Settings
		    Personalize
		
		 Resolution: 1280x1024 @ 60Hz

	Brightness	Brightness adjusts the luminance of the backlight. Touch the ∧ button to increase brightness and touch the ∨ button to decrease brightness (min 0 ~ max 100).
	Contrast	Adjust Brightness first, and then adjust Contrast only if further adjustment is necessary. Touch the ∧ button to increase contrast and touch the ∨ button to decrease contrast (min 0 ~ max 100). The Contrast function adjusts the degree of difference between darkness and lightness on the monitor screen.
	Auto Adjust	Even though your computer recognizes your monitor on startup, the **Auto Adjustment** function optimizes the display settings fo with your particular setup. Auto Adjustment allows the monitor to self-adjust to the incoming video signal. After using Auto Adjustment, you can further tu your monitor by using the Pixel Clock (Coarse) and Phase (Fine) controls under Image Settings. Auto Adjustment in Progress... **NOTE:** In most cases, Auto Adjust produces the best image for your configuration. **Auto Adjust** option is only available when y using the analog (VGA) connector.

	Input Source	Use the **Input Source** menu to select between different video signals that may be connected to your monitor.
		
		Menu **Dell U3011**
		
		    Brightness / Contrast **Scan Sources**
		    Auto Adjust **DVI - D 1**
		    Input Source **DVI - D 2**
		    Color Settings **DisplayPort**
		    Display Settings ✓ **VGA**
		    Audio Settings **HDMI 1**
		    PBP Settings **HDMI 2**
		    Other Settings **Component**
		    Personalize
		
		 Resolution: 1280x1024 @ 60Hz

	Scan Sources	Touch the → button to select the **Scan Sources**, the monitor will auto detect either VGA input or DVI-D input or DislpayPort i or HDMI input or Component video input.
	DVI-D	Select **DVI-D input** when you are using the Digital (DVI) connector. Touch the → button to select the DVI input source.
	DisplayPort	Select **DisplayPort input** when you are using the DisplayPort (DP) connector. Touch the → button to select the DisplayPort i source.
	VGA	Select **VGA input** when you are using the analog (VGA) connector. Touch the → button to select the VGA input source.

	HDMI	Select **HDMI input** when you are using the HDMI connector. Touch the ➡ button to select the HDMI input source.
	Component	Select **Component input** when you are using the Component connector. Touch the ➡ button to select the Component input source.
	Color Settings	Use the **Color Settings** to adjust the color setting mode and color temperature. **Color Settings submenu for Standard, Warm, Cool, Adobe RGB, sRGB, xv Mode and Custom Color modes:** **Color Settings submenu for Multimedia, Game and Movie modes:**
	Input Color Format	Choose the RGB option if monitor is connected to a PC or a DVD using a VGA or a DVI cable. Choose the YPbPr option if monitor connected to a DVD by a YPbPr cable.
	Gamma	To achieve the different color mode for PC and Mac.
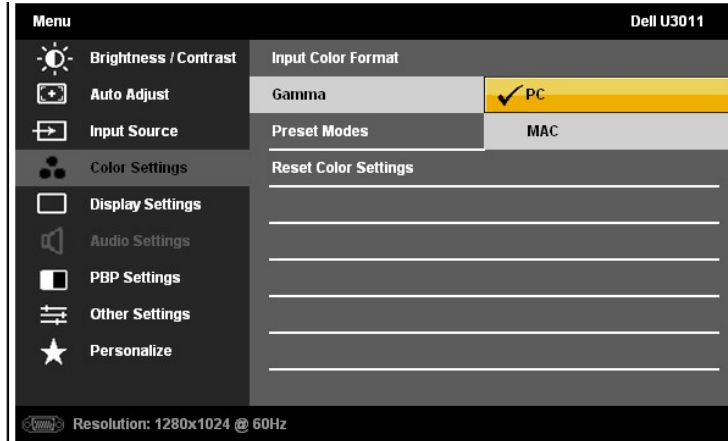
Preset Modes	You can choose **Standard, Multimedia, Game, Movie, Warm, Cool, Adobe RGB, sRGB, xv Mode** or **Custom Color**;	

	l **Standard**: Loads the color settings suitable for desktop applications. This is the default preset mode.
	l **Multimedia**: Loads color settings suitable for multimedia applications, e.g. video playback.
	l **Game**: Loads color settings suitable for most gaming applications.
	l **Movie**: Loads color settings suitable for **movies.**
	l **Warm**: Select warm mode to obtain a red tint. This color setting is typically used for color-intensive applications (photogr image editing, multimedia, movies, etc.).
	l **Cool**: Select cool mode to obtain a bluish tint. This color setting is typically used for text based applications (spreadsheet programming, text editors, etc.).
	l **Adobe RGB**: This mode is compatible with Adobe RGB (99% coverage).
	l **sRGB**: Mode to emulate 72% NTSC color.
	l **xv Mode**: Suitable for xvYCC compliance HDMI source.
	
	l **Custom Color**: Touch the ∧ or ∨ button select **Gain, Offset, Hue and Saturation.**
	  - Gain: Select it to adjust input RGB signal gain level.
	  - Offset: Select it to adjust RGB black level offset value to control your monitor base color.
	  - Hue: Select it to adjust RGBCMY hue value individually.
	  - Saturation: Select it to adjust RGBCMY saturation value individually.	
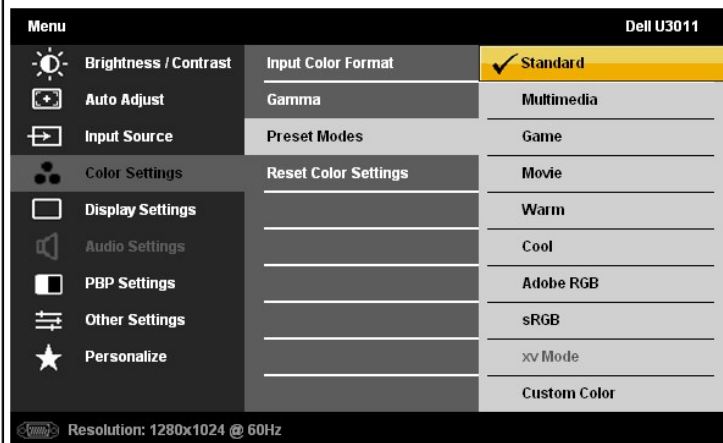
Hue	This feature can shift color of video image to green or purple. This is used to adjust the desired flesh tone color. Use ∧ or ∨ adjust the hue from '0' to '100'. Touch the ∨ button to increase the green shade of the video image. Touch the ∧ button to increase the purple shade of the video image. **NOTE:** Hue adjustment is available only for video input.	
Saturation	This feature can adjust the color saturation of the video image. Use ∧ or ∨ to adjust the saturation from '0' to '100'. Touch the ∨ button to increase the monochrome appearance of the video image. Touch the ∧ button to increase the colorful appearance of the video image. **NOTE:** Saturation adjustment is available only for video input.	
Reset Color Setting s	Reset your monitor color settings to the factory settings.	
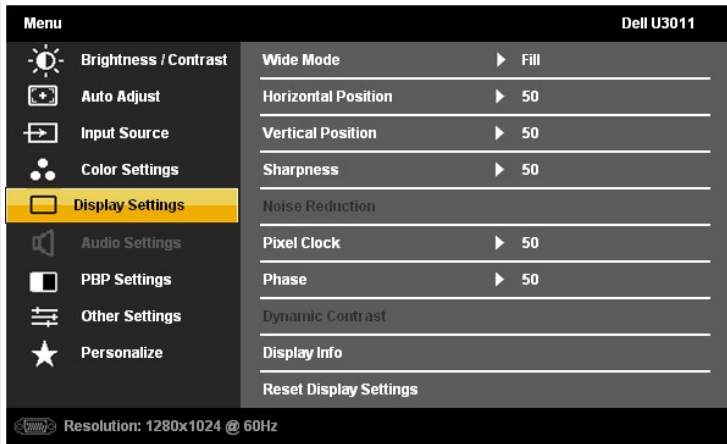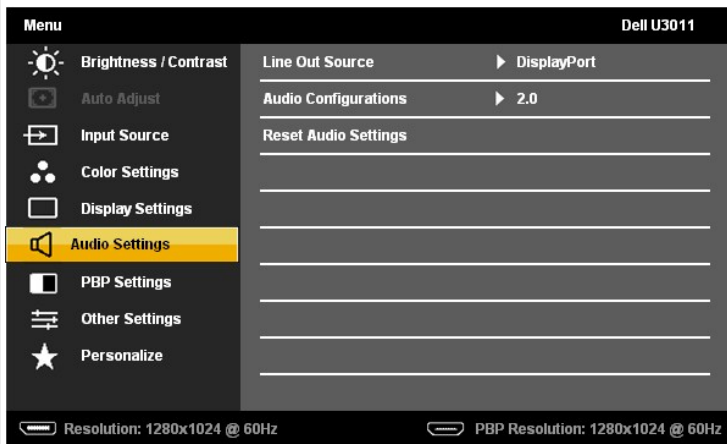
	Display Settings	Use the Display Settings to adjust image.
	Wide Mode	Adjust the image ratio as 16:9, 4:3, 1:1, Aspect or full screen.
	Horizontal Position	Use the ⋀ or ⋁ to adjust image left or right. Minimum is '0' (-). Maximum is '100' (+).
	Vertical Position	Use the ⋀ or ⋁ to adjust image up or down. Minimum is '0' (-). Maximum is '100' (+). **NOTE:** Horizontal Position and Vertical Position Adjustments are only available for "VGA" input.
	Sharpness	This feature can make the image look sharper or softer. Use ⋀ or ⋁ to adjust the sharpness from '0' to '100'.
	Noise Reduction	Improve the motion picture quality by reducing noise on image edge. **NOTE:** Noise Reduction is only available for Multimedia, Game and Movie modes.
	Pixel Clock	The Phase and Pixel Clock adjustments allow you to adjust your monitor to your preference. Use the ⋀ or ⋁ to adjust for best image quality.
	Phase	If satisfactory results are not obtained using the Phase adjustment, use the Pixel Clock (coarse) adjustment and then use Phase (fine), again. **NOTE:** Pixel Clock and Phase Adjustments are only available for "VGA" input.
	Dynamic Contrast	Allows you to increase the level of contrast to provide sharper and more detailed image quality. (Brightness control is disabled in Dynamic Contrast mode and will be grayed out.) Touch the → button to select the Dynamic Contrast "On" or "Off". **NOTE:** Dynamic Contrast is only available for Game and Movie color preset modes.
	Display Info	Displays the monitor's current settings.
	Reset Display Settings	Select this option to restore default display settings.
	Audio Settings	Select this option to adjust the audio settings.
	Line Out Source	Use the **Line Out Source** menu to select between different audio signals that may be connected to your monitor.
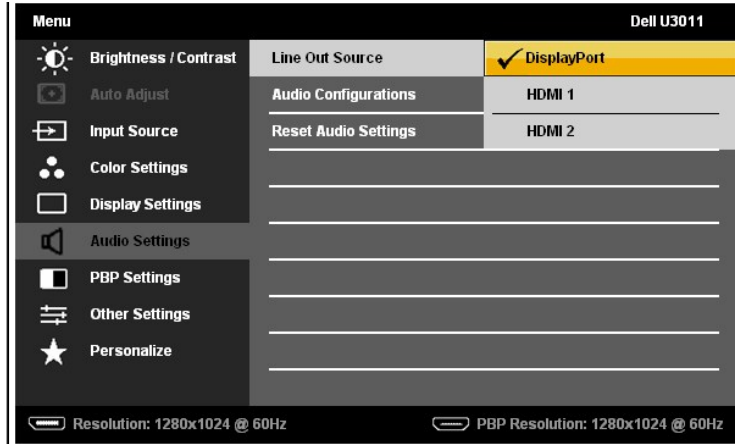
<table>
<tr><td></td><td></td><td>

Menu   **Dell U3011**

☼ Brightness / Contrast	**Line Out Source** ✓ **DisplayPort**
⊡ Auto Adjust	**Audio Configurations** HDMI 1
⊞ Input Source	**Reset Audio Settings** HDMI 2
⋮ Color Settings	
▭ Display Settings	
◁ **Audio Settings**	
▯ PBP Settings	
≡ Other Settings	
★ Personalize	

⊟ Resolution: 1280x1024 @ 60Hz   ⊟ PBP Resolution: 1280x1024 @ 60Hz

∧ ∨ ✓ ↩

NOTE: Line Out Source selection is available only when the monitor display is in PBP mode.
</td></tr>
<tr>
<td></td>
<td>**Audio Configurations**</td>
<td>

Audio offers two kind of configurations of audio channels. Use the ∧ or ∨ to move between 2 channels and 5.1 channels select the desired option.

Menu   **Dell U3011**

☼ Brightness / Contrast	**Line Out Source**
⊡ Auto Adjust	**Audio Configurations** ✓ **2.0**
⊞ Input Source	**Reset Audio Settings** 5.1
⋮ Color Settings	
▭ Display Settings	
◁ **Audio Settings**	
▯ PBP Settings	
≡ Other Settings	
★ Personalize	

⊟ Resolution: 1280x1024 @ 60Hz   ⊟ PBP Resolution: 1280x1024 @ 60Hz

∧ ∨ ✓ ↩
</td></tr>
<tr>
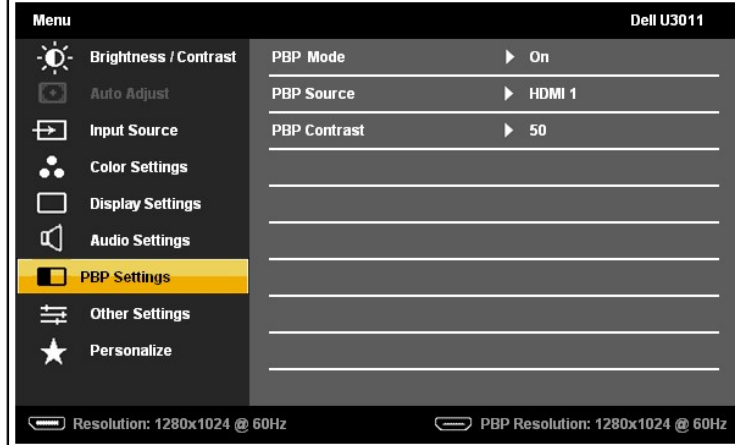<td></td>
<td>**Reset Audio Settings**</td>
<td>Reset all audio settings to the factory preset values.</td>
</tr>
<tr>
<td>▯</td>
<td>**PBP Settings**</td>
<td>

This function brings up a window displaying image from another input source. Thus you can watch two images from different so at the same time.

PBP submenu when PBP On

Menu   **Dell U3011**

☼ Brightness / Contrast	PBP Mode ▸ On
⊡ Auto Adjust	PBP Source ▸ HDMI 1
⊞ Input Source	PBP Contrast ▸ 50
⋮ Color Settings	
▭ Display Settings	
◁ Audio Settings	
▯ **PBP Settings**	
≡ Other Settings	
★ Personalize	

⊟ Resolution: 1280x1024 @ 60Hz   ⊟ PBP Resolution: 1280x1024 @ 60Hz

∧ ∨ → ✗

PBP submenu when PBP Off
</td></tr>
</table>
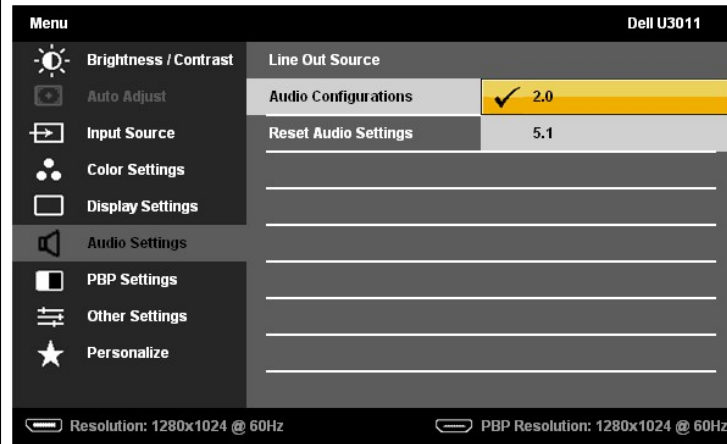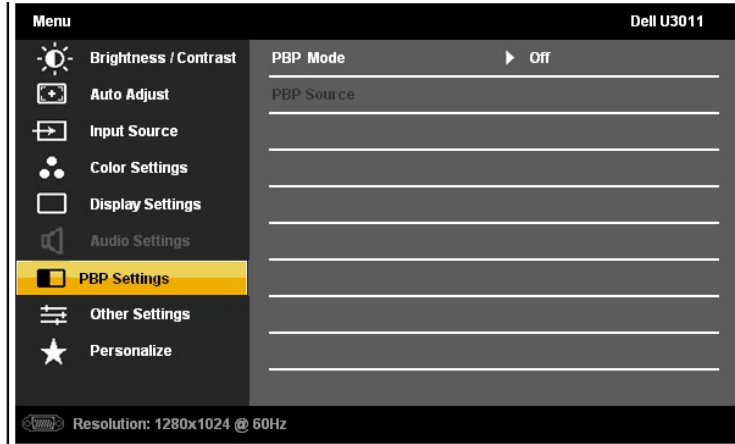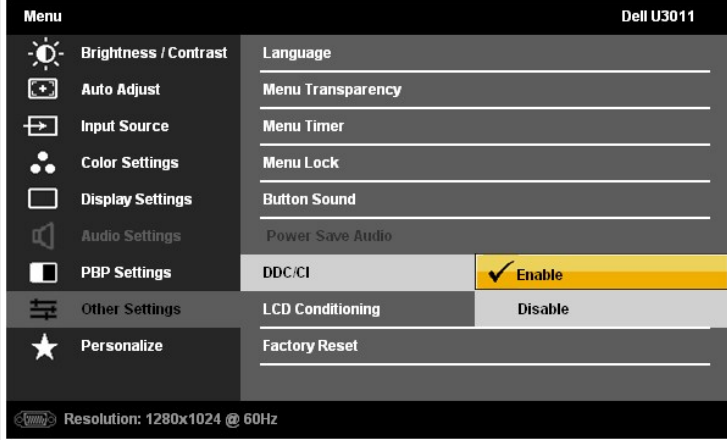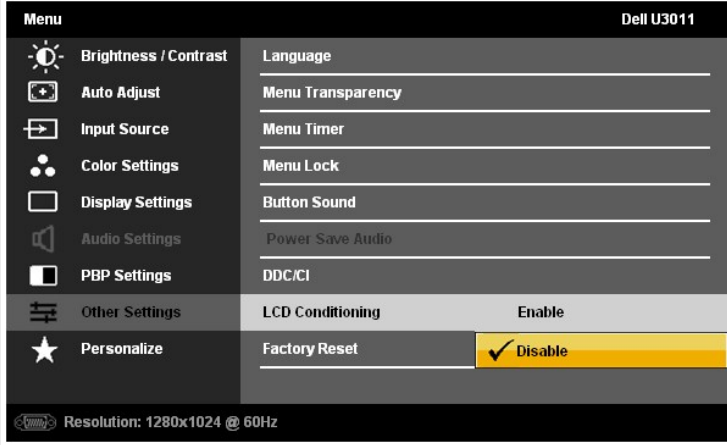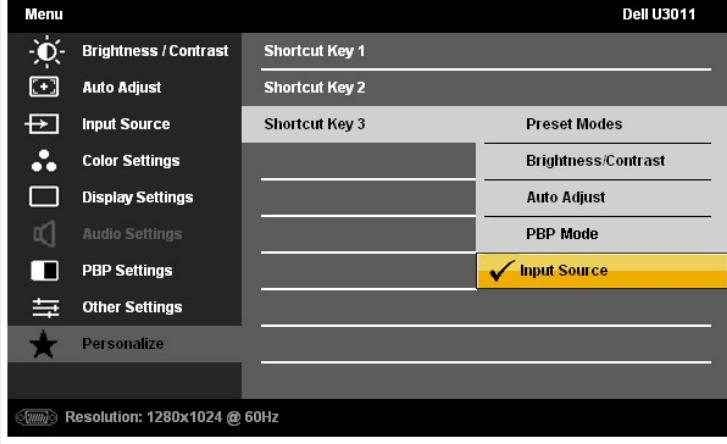
PBP Mode	To turn **on** or **off** Picture by Picture (PBP).
PBP Source	Select an input signal for Picture by Picture (PBP). (HDMI 1/HDMI 2/Component).
PBP Contrast	Adjust the contrast level of the picture in PBP Mode.

Other Settings	Select this option to adjust the settings of the OSD, such as, the languages of the OSD, the amount of time the menu remains screen, and so on.

Language	Language option to set the OSD display to one of eight languages (English, Español, Français, Deutsch, Brazilian Portuguese, Russian, Simplified Chinese or Japanese).
Menu Transparency	Select this option to change the menu transparency by touching ⋀ and ⋁ buttons (Minimum: 0 ~ Maximum: 100).
Menu Timer	OSD Hold Time: Sets the length of time the OSD will remain active after the last time you touched a button. Use the ⋀ or ⋁ to adjust the slider in 1 second increments, from 5 to 60 seconds.
Menu Lock	This function allows you to restrict the access of the various settings on your monitor. To lock the menu, select the 'Lock' option. To unlock the menu, touch and hold the button above the Power button for about 10 seconds.
Button Sound	This function is used to turn on/off the button sound.
Power Save Audio	To turn **on** or **off** Audio Power during Power Save mode. **NOTE:** This function is available only when DC power connector is connected to soundbar.
DDC/CI	DDC/CI (Display Data Channel/Command Interface) allows your monitor parameters (brightness, color balance etc) to be adjus via software on your computer. You can disable this feature by selecting "Disable". Enable this feature for best user experience and optimum performance of your monitor.

	LCD Conditioning	Helps reduce minor cases of image retention. Depending on the degree of image retention, the program may take some time to You can enable this feature by selecting "Enable".
	Factory Reset	Reset all OSD settings to the factory preset values.
★	Personalize	This feature enables you to personalize the shortcut keys.

NOTE: This monitor has a built-in feature to automatically calibrate the brightness to compensate for CCFL aging.

OSD Warning Messages

When Dynamic Contrast Feature is enabled (in these modes: Game, Movie and Multimedia), the manual brightness adjustment is disabled.

When the monitor does not support a particular resolution mode you will see the following message:
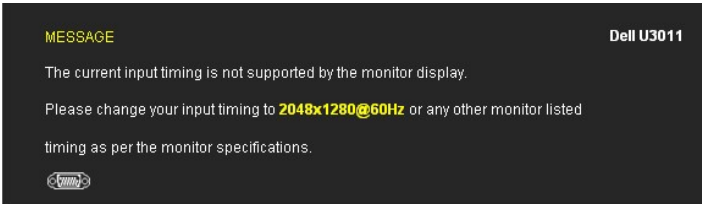
This means that the monitor cannot synchronize with the signal that it is receiving from the computer. See Monitor Specifications for the **Horizontal and Vertical frequency ranges addressable by this monitor. Recommended mode is 2048 x 1280 (VGA input source) / 2560 x 1600 (DVI/DisplayPort input sources) / 1920 x 1200 (HDMI input source).**

You will see the following message before the DDC/CI function is disabled.
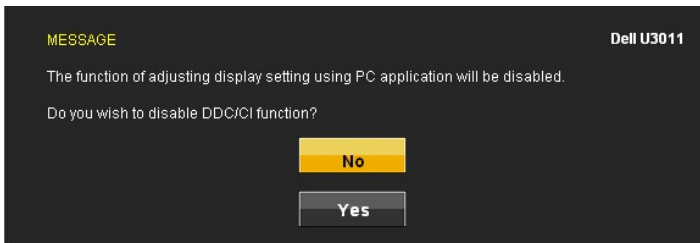
When monitor enters Power Save mode, the following message appears:
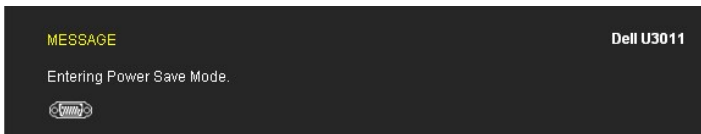
Activate the computer and wake up the monitor to gain access to the OSD

If you touch any button other than the power button one of the following messages will appear depending on the selected input:

VGA/DVI-D/DisplayPort/HDMI/Component input

MESSAGE   Dell U3011

There is no signal from your video source.

Press the monitor button now to select the correct input source on the On-Screen-Display menu.

If either VGA or DVI-D or DisplayPort or HDMI or Component input is selected and both VGA and DVI-D and DisplayPort and HDMI and Component cables are not dialog box as shown below appears.

No VGA Cable   Dell U3011

No DisplayPort Cable   Dell U3011

No DVI-D 1 Cable   Dell U3011

No DVI-D 2 Cable   Dell U3011

No HDMI 1 Cable   Dell U3011

No HDMI 2 Cable   Dell U3011

No Component Cable   Dell U3011

See <u>Solving Problems</u> for more information.

Setting the Maximum Resolution

To set the Maximum resolution for the monitor:

Windows XP:

1. Right-click on the desktop and select **Properties**.
2. Select the **Settings** tab.
3. **Set the screen resolution to 2048 x 1280 (VGA input source) / 2560 x 1600 (DVI/DisplayPort input sources) / 1920 x 1200 (HDMI input source).**
4. Click **OK**.

Windows Vista® or Windows® 7:

1. Right-click on the desktop and select **Personalization**.
2. Click **Change Display Settings**.
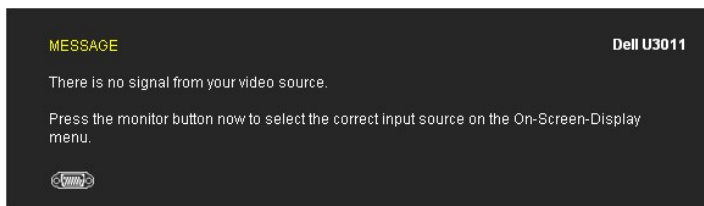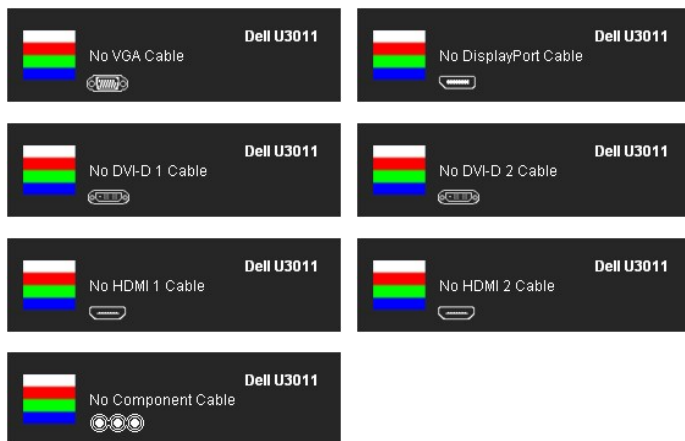3. Move the slider-bar to the right by pressing and holding left-mouse button and adjust the screen resolution to 2048 x 1280 (VGA input source) / 2560 x 1600 (DVI/DisplayPort input sources) / 1920 x 1200 (HDMI input source).
4. Click **OK**.

If you do not see 2048 x 1280 (VGA input source) / 2560 x 1600 (DVI/DisplayPort input sources) / 1920 x 1200 (HDMI input source), as an option, you may need to update your graphics driver. Depending on your computer, complete one of the following procedures:

If you have a Dell desktop or portable computer:

l   Go to **support.dell.com**, enter your service tag, and download the latest driver for your graphics card.

If you are using a non-Dell computer (portable or desktop):

l   Go to the support site for your computer and download the latest graphic drivers.
l   Go to your graphics card website and download the latest graphic drivers.

NOTE: In DVI, please use the dual-link DVI cable shipped with your monitor for maximum preset resolution of 2560 x 1600.

Using the Dell Soundbar (Optional)

The Dell Soundbar is a stereo two channel system adaptable to mount on Dell Flat Panel Displays. The Soundbar has a rotary volume and on/off control to adjust the overall system level, a blue LED for power indication, and two audio headset jacks.
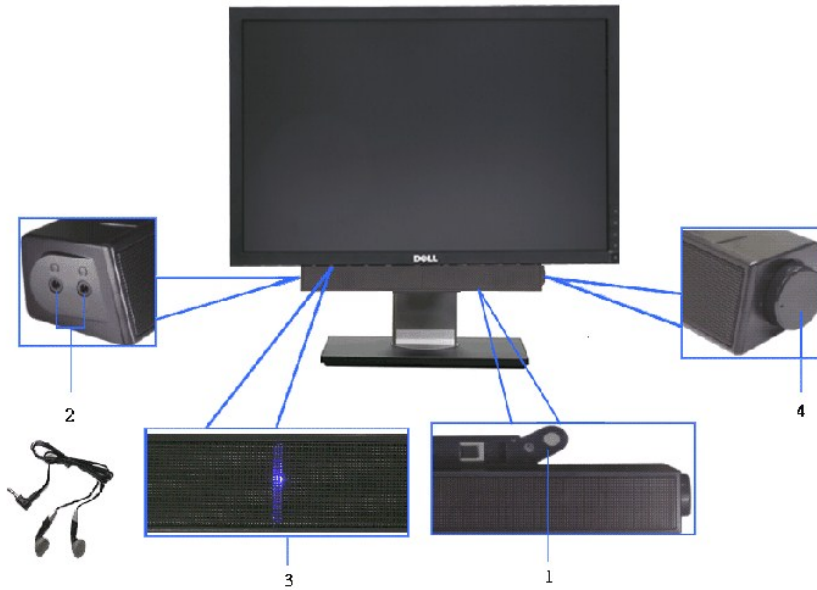
1. Attach mechanism
2. Headphone jacks
3. Power indicator
4. Power/Volume control

Using the Tilt, Swivel, and Vertical Extension

NOTE: This is applicable for a monitor with a stand. When any other stand is bought, please refer to the respective stand setup guide for setup instructions.

Tilt, Swivel

With this stand, you can tilt and swivel the monitor for the most comfortable viewing angle.
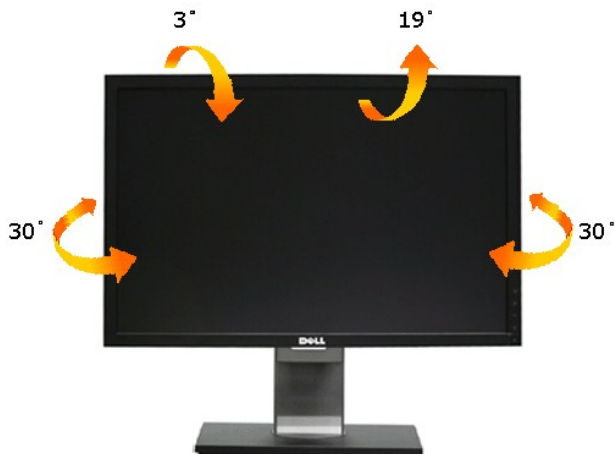
NOTE: The stand is attached when the monitor is shipped from the factory.

Vertical Extension

NOTE: The stand extends vertically up to 90 mm. The figures below illustrate how to extend the stand vertically.

Setting Up Your Monitor
Dell™ U3011 Flat Panel Monitor

Setting the display resolution to 2048 x 1280 (VGA input source) / 2560 x 1600 (DVI/DisplayPort™ input sources) / 1920 x 1200 (HDMI input source)(Optimal)

For maximum display performance with Microsoft® Windows® operating systems, set the display resolution to 2048 x 1280 (VGA input source) / 2560 x 1600 (DVI/DisplayPort input sources) / 1920 x 1200 (HDMI input source) pixels by performing the following steps:

In Windows XP:

1. Right-click on the desktop and click **Properties**.

2. Select the **Settings** tab.

3. Move the slider-bar to the right by pressing and holding the left-mouse button and adjust the screen resolution to 2048 x 1280 (VGA input source) / 2560 x 1600 (DVI/DisplayPort input sources) / 1920 x 1200 (HDMI input source).

4. Click **OK**.

In Windows Vista® or Windows® 7:

1. Right-click on the desktop and click **Personalization**.

2. Click **Change Display Settings**.

3. Move the slider-bar to the right by pressing and holding the left-mouse button and adjust the screen resolution to 2048 x 1280 (VGA input source) / 2560 x 1600 (DVI/DisplayPort input sources) / 1920 x 1200 (HDMI input source).

4. Click **OK**.

NOTE: In DVI, please use the dual-link DVI cable shipped with your monitor for maximum preset resolution of 2560 x 1600.

If you do not see 2048 x 1280 (VGA input source) / 2560 x 1600 (DVI/DisplayPort input sources) / 1920 x 1200 (HDMI input source) as an option, you may need to update your graphics driver. Please choose the scenario below that best describes the computer system you are using, and follow the provided directions:

1: If you have a Dell™ desktop or a Dell™ portable computer with internet access.

2: If you have a non Dell™ desktop, portable computer, or graphics card.

Dell™ U3011 Flat Panel Monitor

Model U3011t

July 2010 Rev. A00

Setting Up the Monitor

Dell™ U3011 Flat Panel Monitor User's Guide

- Connecting the Monitor
- Organizing Your Cables
- Attaching the Soundbar (optional)
- Removing the Stand
- Attaching the Stand

Connecting the Monitor

⚠ **WARNING:** Before you begin any of the procedures in this section, follow the Safety Instructions.

✏ **NOTE:** USB uplink cable connection enables USB ports and card reader on the monitor to work.

To connect your monitor to the computer:

1. Turn off your computer and disconnect the power cable.
2. Connect either the white (digital DVI-D) or the blue (analog VGA) or the black (DisplayPort) display connector cable to the corresponding video port on the back of your computer. **Do not use the three cables on the same computer.** Use all the cables only when they are connected to three different computers with appropriate video systems.
3. Connect the USB uplink cable.

Connecting the white DVI cable and the USB uplink cable
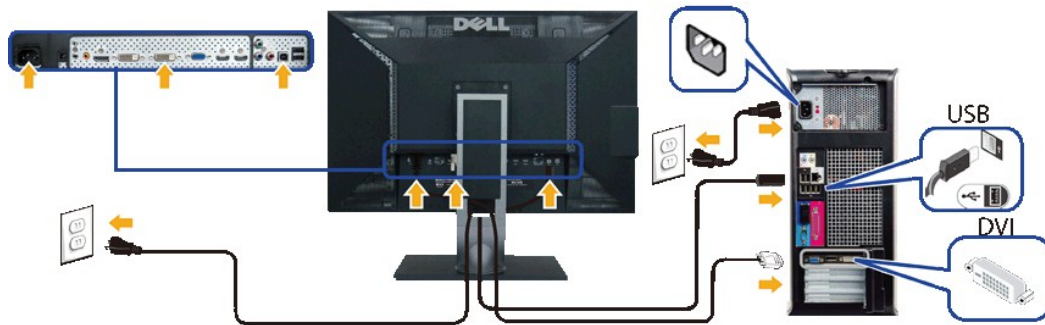
✏ **NOTE:** Your monitor supports two DVI ports. You can choose the input source (DVI-D 1 or DVI-D 2) through the OSD menu's Input source select option.

Connecting the blue VGA cable and the USB uplink cable
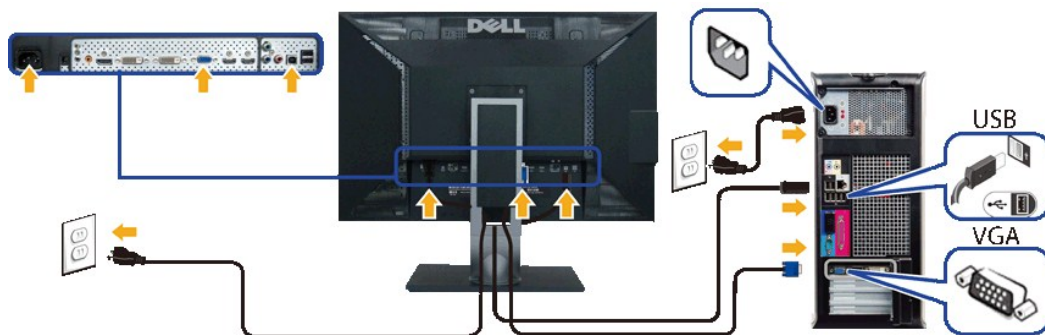
Connecting the black DisplayPort cable and the USB uplink cable
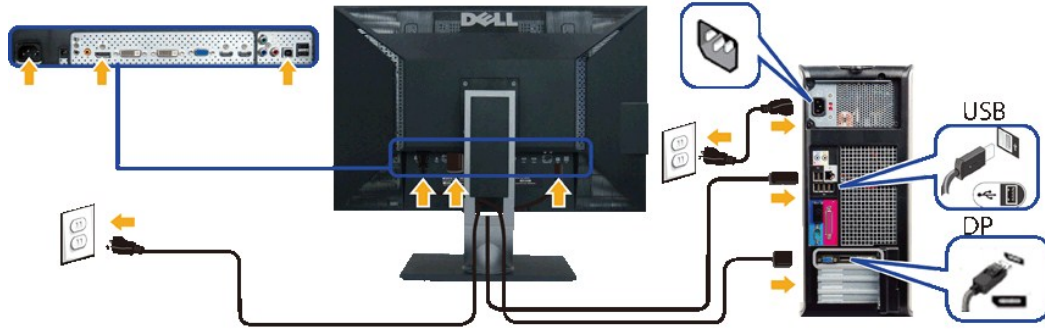
NOTE: The graphics are used for the purpose of illustration only. Appearance of the computer may vary.

After you have completed connecting the DVI/VGA/DisplayPort cable, follow the procedure below to complete your monitor setup:

1. **Plug the power cables for your computer and monitor into a nearby outlet.**
2. Turn on the monitor and the computer.
   If your monitor displays an image, installation is complete. If it does not display an image, see Solving Problems.
3. Use the cable slot on the monitor stand to organize the cables.

Organizing Your Cables

After attaching all necessary cables to your monitor and computer, (See Connecting Your Monitor for cable attachment,) use the cable management slot **to organize all cables as shown above.**

Attaching the Soundbar (Optional)

To attach the Soundbar:

1. Working from the back of the monitor, attach the Soundbar by aligning the two slots with the two tabs along the bottom of the monitor.
2. Slide the Soundbar to the left until it snaps into place.
3. Connect the Soundbar with the DC power connector.
4. Insert the mini stereo plug from the back of the Soundbar into the computer's audio output jack.

⚠ **CAUTION:** Do not use with any device other than the Dell Soundbar.

✏ **NOTE:** The Soundbar power connector (+12 V DC output) is for the optional Dell Soundbar only.

Removing the Stand

✏ **NOTE:** To prevent scratches on the LCD screen while removing the stand, ensure that the monitor is placed on a soft, clean surface.

✏ **NOTE:** This is applicable for a monitor with a stand. When any other stand is bought, please refer to the respective stand setup guide for setup instructions.
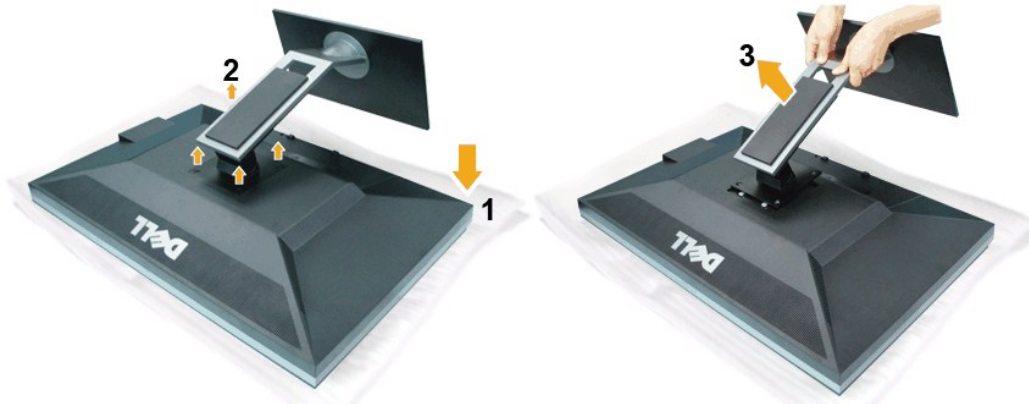
To remove the stand:

1. Place the monitor on a flat surface.
2. Remove the four screws from the stand.
3. Lift the stand up and away from the monitor.

Attaching the Stand

✏ **NOTE:** This is applicable for a monitor with a stand. When any other stand is bought, please refer to the respective stand setup guide for setup instructions.
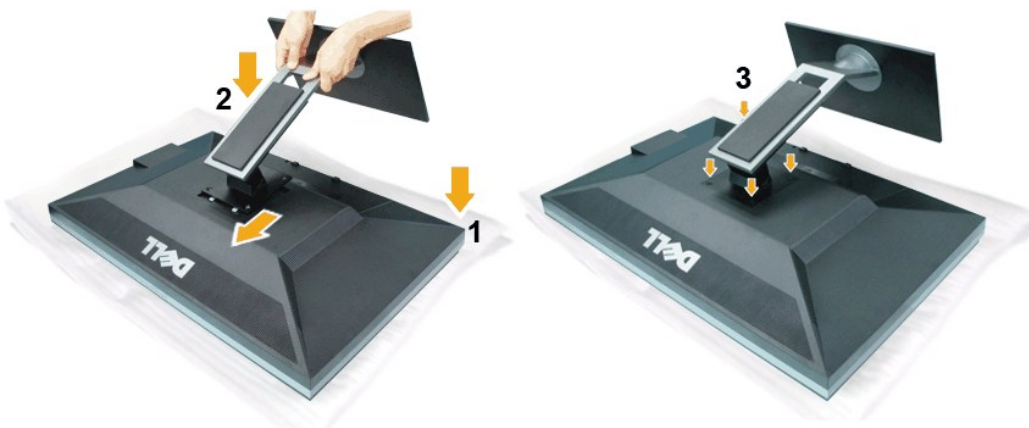
To attach the monitor stand:

1. Place the monitor on a flat surface.
2. Fit the two tabs on the upper part of the stand to the groove on the back of the monitor, lower the stand onto the back of the monitor.
3. Tighten the bolts as indicated.

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Troubleshooting

Dell™ U3011 Flat Panel Monitor User's Guide

- Self-Test
- Built-in Diagnostics
- Common Problems
- Product Specific Problems
- Universal Serial Bus Specific Problems
- Dell Soundbar Problems

⚠ **WARNING:** Before you begin any of the procedures in this section, follow the Safety Instructions.

Self-Test

Your monitor provides a self-test feature that allows you to check whether your monitor is functioning properly. If your monitor and computer are properly connected but the monitor screen remains dark, run the monitor self-test by performing the following steps:

1. Turn off both your computer and the monitor.
2. Unplug the video cable from the back of the computer. To ensure proper Self-Test operation, remove all Digital (white connector) and the Analog (blue connector) cables from the back of computer.
3. Turn on the monitor.

   The floating dialog box should appear on-screen (against a black background) if the monitor cannot sense a video signal and is working correctly. While in self-test mode, the power LED remains green. Also, depending upon the selected input, one of the dialogs shown below will continuously scroll through the screen.

|	
Dell U3011 No VGA Cable	**Dell U3011** No DisplayPort Cable
Dell U3011 No DVI-D 1 Cable	**Dell U3011** No DVI-D 2 Cable
Dell U3011 No HDMI 1 Cable	**Dell U3011** No HDMI 2 Cable
Dell U3011 No Component Cable	
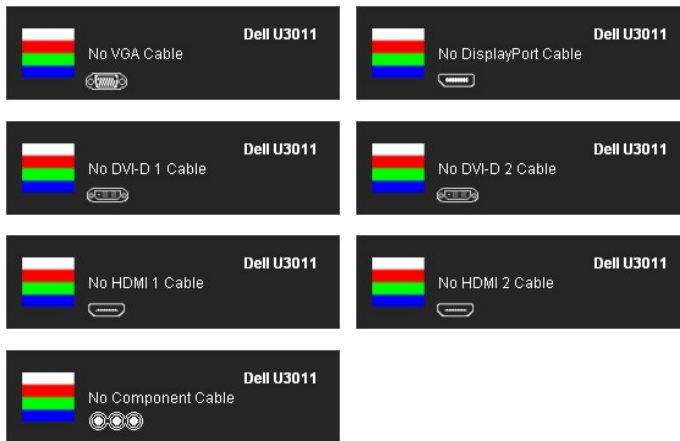
1. This box also appears during normal system operation if the video cable becomes disconnected or damaged.
2. Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor.

If your monitor screen remains blank after you use the previous procedure, check your video controller and computer, because your monitor is functioning properly.

Built-in Diagnostics

Your monitor has a built-in diagnostic tool that helps you determine if the screen abnormality you are experiencing is an inherent problem with your monitor, or with your computer and video card.

✎ **NOTE:** You can run the built-in diagnostics only when the video cable is unplugged and the monitor is in *self-test mode*.
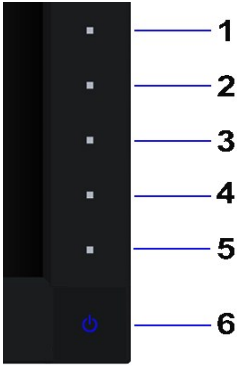
To run the built-in diagnostics:

1. Ensure that the screen is clean (no dust particles on the surface of the screen).
2. Unplug the video cable(s) from the back of the computer or monitor. The monitor then goes into the self-test mode.
3. Press and hold the **Button 1** and **Button 4** on the front panel simultaneously for 2 seconds. A gray screen appears.
4. Carefully inspect the screen for abnormalities.
5. Press the **Button 4** on the front panel again. The color of the screen changes to red.
6. Inspect the display for any abnormalities.
7. Repeat steps 5 and 6 to inspect the display in green, blue, black, white screens.

The test is complete when the white screen appears. To exit, press the **Button 4** again**.**

If you do not detect any screen abnormalities upon using the built-in diagnostic tool, the monitor is functioning properly. Check the video card and computer.

Common Problems

The following table contains general information about common monitor problems you might encounter and the possible solutions.

Common Symptoms	What You Experience	Possible Solutions
No Video/Power LED off	No picture	l Ensure that the video cable connecting the monitor and the computer is properly connected and secure. l Verify that the power outlet is functioning properly using any other electrical equipment. l Ensure that the power button is depressed fully. l Ensure that the correct input source is selected via the Input Source Select button.
No Video/Power LED on	No picture or no brightness	l Increase brightness & contrast controls via OSD. l Perform monitor self-test feature check. l Check for bent or broken pins in the video cable connector. l Run the built-in diagnostics. l Ensure that the correct input source is selected via the Input Source Select button.
Poor Focus	Picture is fuzzy, blurry, or ghosting	l Perform Auto Adjust via OSD. l Adjust the Phase and Pixel Clock controls via OSD. l Eliminate video extension cables. l Reset the monitor to Factory Settings. l Change the video resolution to the correct aspect ratio (16:10).
Shaky/Jittery Video	Wavy picture or fine movement	l Perform Auto Adjust via OSD. l Adjust the Phase and Pixel Clock controls via OSD. l Reset the monitor to Factory Settings. l Check environmental factors. l Relocate the monitor and test in another room.
Missing Pixels	LCD screen has spots	l Cycle power on-off. l Pixel that is permanently off is a natural defect that can occur in LCD technology. l For more information on Dell Monitor Quality and Pixel Policy, see Dell Support site at: **support.dell.com**.
Stuck-on Pixels	LCD screen has bright spots	l Cycle power on-off. l Pixel that is permanently off is a natural defect that can occur in LCD technology. l For more information on Dell Monitor Quality and Pixel Policy, see Dell Support site at: **support.dell.com**.
Brightness Problems	Picture too dim or too bright	l Reset the monitor to Factory Settings. l Auto Adjust via OSD. l Adjust brightness & contrast controls via OSD.
Geometric Distortion	Screen not centered correctly	l Reset the monitor to Factory Settings. l Auto Adjust via OSD. l Adjust horizontal & vertical controls via OSD.

		NOTE: When using DVI-D input, the positioning adjustments are not available.
Horizontal/Vertical Lines	Screen has one or more lines	l Reset the monitor to Factory Settings. l Perform Auto Adjust via OSD. l Adjust Phase and Pixel Clock controls via OSD. l Perform monitor self-test feature check and determine if these lines are also in self-test mode. l Check for bent or broken pins in the video cable connector. l Run the built-in diagnostics. **NOTE:** When using DVI-D input, the Pixel Clock and Phase adjustments are not available.
Synchronization Problems	Screen is scrambled or appears torn	l Reset the monitor to Factory Settings. l Perform Auto Adjust via OSD. l Adjust Phase and Pixel Clock controls via OSD. l Perform monitor self-test feature check to determine if the scrambled screen appears in self-test mode. l Check for bent or broken pins in the video cable connector. l Restart the computer in the *safe mode*.
Safety-Related Issues	Visible signs of smoke or sparks	l Do not perform any troubleshooting steps. l Contact Dell immediately.
Intermittent Problems	Monitor malfunctions on & off	l Ensure that the video cable connecting the monitor to the computer is connected properly and is secure. l Reset the monitor to Factory Settings. l Perform monitor self-test feature check to determine if the intermittent problem occurs in self-test mode.
Missing Color	Picture missing color	l Perform monitor self-test feature check. l Ensure that the video cable connecting the monitor to the computer is connected properly and is secure. l Check for bent or broken pins in the video cable connector.
Wrong Color	Picture color not good	l Change the Color Setting Mode in the Color Settings OSD to Graphics or Video depending on the application. l Try different Color Preset Settings in Color Settings OSD. Adjust R/G/B value in Color Settings OSD if the Color Management is turned off. l Change the Input Color Format to PC RGB or YPbPr in the Advance Setting OSD. l Run the built-in diagnostics.
Image retention from a static **image left on the monitor for** a long period of time	Faint shadow from the static image displayed appears on the screen	l Use the Power Management feature to turn off the monitor at all times when not in use (for more information, see <u>Power Management Modes</u>). l Alternatively, use a dynamically changing screensaver.

Product Specific Problems

Specific Symptoms	What You Experience	Possible Solutions
Screen image is too small	Image is centered on screen, but does not fill entire viewing area	l Check the Scaling Ratio setting in Image Setting OSD. l Reset the monitor to Factory Settings.
Cannot adjust the monitor with the buttons on the front panel	OSD does not appear on the screen	l Turn off the monitor, unplug the power cord, plug back, and then turn on the monitor.
No Input Signal when user controls are pressed	No picture, the LED light is green. When you press "+", "-" or "Menu" key, the message "No S-Video input signal", or "No Composite input signal", or "No **Component input signal"** appears	l Check the signal source. Ensure the computer is not in the power saving mode by moving the mouse or pressing any key on the keyboard. l Check to make sure Video Source to S-Video, Composite or Component is powered and playing video media. l **Check whether the signal cable is plugged in properly. Re**-plug the signal cable if necessary. l Reset the computer or video player.
The picture does not fill the entire screen.	The picture cannot fill the height or width of the screen	l Due to different video formats (aspect ratio) of DVDs, the monitor may display in full screen. l Run the built-in diagnostics.

NOTE: When choosing DVI-D mode, the **Auto Adjust** function will not be available.

Universal Serial Bus (USB) Specific Problems

Specific Symptoms	What You Experience	Possible Solutions
USB interface is not working	USB peripherals are not working	l Check that your monitor is turned ON. l **Reconnect the upstream cable to your computer.** l **Reconnect the USB peripherals (downstream connector).** l Switch off and then turn on the monitor again. l Reboot the computer. l Some USB devices like external portable HDD require higher electric current; connect the device directly to the computer system.

High Speed USB 2.0 interface is slow.	High Speed USB 2.0 peripherals working slowly or not working at all	l Check that your computer is USB 2.0-capable. l Some computers have both USB 2.0 and USB 1.1 ports. Ensure that the correct USB port is used. l Reconnect the upstream cable to your computer. l Reconnect the USB peripherals (downstream connector). l Reboot the computer.

Dell™ Soundbar Problems

Common Symptoms	What You Experience	Possible Solutions
No Sound	No power to Soundbar - the power indicator is off	l Turn the Power/Volume knob on the Soundbar clockwise to the middle position; check if the power indicator (Blue LED) on the front of the Soundbar is illuminated. l Confirm that the power cable from the Soundbar is plugged into the adapter.
No Sound	Soundbar has power - power indicator is on	l Plug the audio line-in cable into the computer's audio out jack. l Set all Windows volume controls to their maximum. l Play some audio content on the computer (i.e. audio CD, or MP3). l Turn the Power/Volume knob on the Soundbar clockwise to a higher volume setting. l Clean and reseat the audio line-in plug. l Test the Soundbar using another audio source (i.e. portable CD player).
Distorted Sound	Computer's sound card is used as the audio source	l Clear any obstructions between the Soundbar and the user. l Confirm that the audio line-in plug is completely inserted into the jack of the sound card. l Set all Windows volume controls to their midpoints. l Decrease the volume of the audio application. l Turn the Power/Volume knob on the Soundbar counter-clockwise to a lower volume setting. l Clean and reseat the audio line-in plug. l Troubleshoot the computer's sound card. l Test the Soundbar using another audio source (i.e. portable CD player).
Distorted Sound	Other audio source is used	l Clear any obstructions between the Soundbar and the user. l Confirm that the audio line-in plug is completely inserted into the jack of the audio source. l Decrease the volume of the audio source. l Turn the Power/Volume knob on the Soundbar counter-clockwise to a lower volume setting. l Clean and reseat the audio line-in plug.
Unbalanced Sound Output	Sound from only one side of Soundbar	l Clear any obstructions between the Soundbar and the user. l Confirm that the audio line-in plug is completely inserted into the jack of the sound card or audio source. l Set all Windows audio balance controls (L-R) to their midpoints. l Clean and reseat the audio line-in plug. l Troubleshoot the computer's sound card. l Test the Soundbar using another audio source (i.e. portable CD player).
Low Volume	Volume is too low	l Clear any obstructions between the Soundbar and the user. l Turn the Power/Volume knob on the Soundbar clockwise to the maximum volume setting. l Set all Windows volume controls to their maximum. l Increase the volume of the audio application. l Test the Soundbar using another audio source (i.e. portable CD player).